

## **ABSTACT**

**"A disposable safety syringe"**

**This invention relates to a disposable safety syringe comprising of barrel and plunger connected with a gasket characterized in that a plunger tip at the end of plunger, an internal locking ring inside the barrel tip to lock the barrel with the plunger and a lever lock around the barrel tip to lock the needle with the barrel.**

**WE CLAIM:**

1. A disposable safety syringe comprising of barrel and plunger connected with a gasket characterized in that a plunger tip at the end of plunger, an internal locking ring inside the barrel tip to lock the barrel with the plunger and a lever lock around the barrel tip to lock the needle with the barrel.
2. A disposable safety syringe as claimed in claim 1 wherein the plunger tip is provided for the full utilization of the dead space inside the barrel tip.
3. A disposable safety syringe substantially as herein described with reference to accompanying drawing.

DATED THIS

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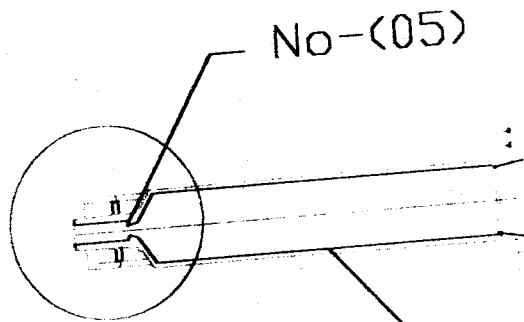
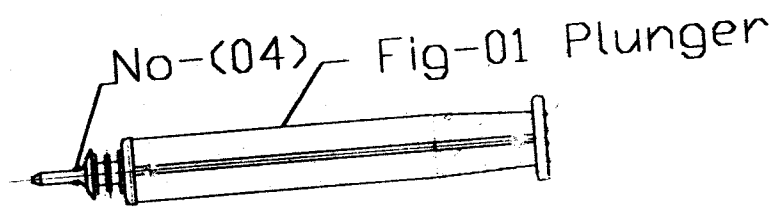
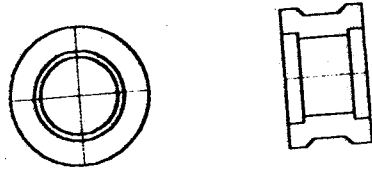
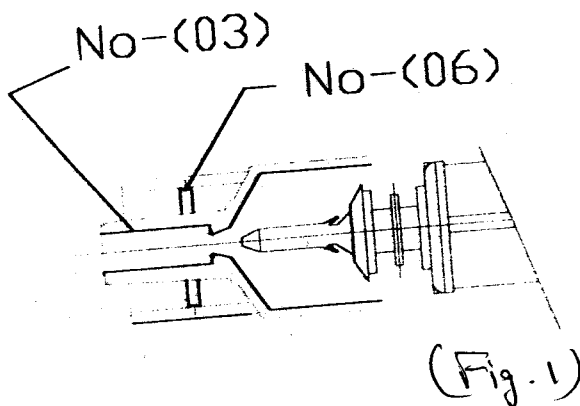
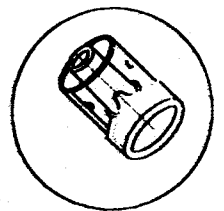


Fig-2 Barrel



Isometric view



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### **FIELD OF INVENTION**

This invention relates to a disposable safety syringe.

### **PRIOR ART**

Disposable safety syringes are as such known in the art comprising of barrel, plunger, gasket and needle. Though, the safety syringes are meant for a single use, but they are reused, which leads to spreading of diseases. No such constructional arrangement is provided with the available syringes to curb the reuse of the same. Further, the current syringes don't facilitate full utilization of their dead space. Moreover, the operation of the same is complicated, which requires the users to take training before making use. This make the implementation of the syringe expensive.

### **OBJECTS OF THE INVENTION**

The primary object of the present invention is to propose a disposable safety syringe to overcome the disadvantages of the prior art.

Another object of the present invention is to propose a disposable safety syringe which is easy in operation and cheaper as compared to the known art.

Still another object of the present invention is to propose a disposable safety syringe which is simpler in construction.

Further object of the present invention is to propose a disposable safety syringe which suits the standard laid by WHO.

#### **STATEMENT OF INVENTION**

According to this invention there is provided a disposable safety syringe comprising of barrel and plunger connected with a gasket characterized in that a plunger tip at the end of plunger, an internal locking ring inside the barrel tip to lock the barrel with the plunger and a lever lock around the barrel tip to lock the needle with the barrel.

#### **BRIEF DESCRIPTION OF THE ACCOMPANYING DRAWINGS**

Further objects and advantages of this invention will be more apparent from the ensuing description when read in conjunction with the accompanying drawing and wherein:

Figure .1 shows disposable safety syringe of the present invention.

**DETAILED DESCRIPTION OF THE INVENTION WITH REFERENCE TO  
ACCOMPANYING DRAWING.**

Reference may be made to figure 1 which shows the syringe of the present invention wherein the plunger (1) is disposed with a tip (4) so as to accommodate the tip in the dead space inside the tip (3) of barrel (2). Provision of plunger tip facilitates full utilization of the chemical/drug in the dead space of the barrel.

The barrel is disposed with an internal locking ring (5) inside its tip so as to cause locking of barrel with the plunger. Further, a lever lock (6) is provided around the barrel tip to lock the needle with the barrel.

The locking arrangement of the instant invention makes the syringe disposable after a single use as the needle and plunger get locked with the barrel. Therefore, the same meets the standard laid by WHO.

It is to be noted that the present invention is susceptible to modifications, adaptations and changes by those skilled in the art. Such variant embodiments employing the concepts and features of this invention are intended to be within the scope of the present invention, which is further set forth under the following claims:-